A. Permit Certificate

MUNICIPAL
WASTEWATER REUSE PERMIT

LA-000066-02

THE CITY OF MENAN WASTEWATER TREATMENT AND REUSE FACILITY, LOCATED APPROXIMATELY ONE MILE SOUTH OF MENAN, ID, AND IN TOWNSHIP 4 NORTH, RANGE 38 EAST, SECTION 4 IS HEREBY AUTHORIZED TO CONSTRUCT, INSTALL, AND OPERATE A WASTEWATER REUSE SYSTEM IN ACCORDANCE WITH THE WASTEWATER REUSE RULES (IDAPA 58.01.17), THE WASTEWATER RULES (IDAPA 58.01.16), THE GROUND WATER QUALITY RULE (IDAPA 58.01.11), AND ACCOMPANYING PERMIT, APPENDICES, AND REFERENCE DOCUMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON (60 months from issue date).

James Johnston
Idaho Falls Regional Administrator
Idaho Department of Environmental Quality

Date:

DEPARTMENT OF ENVIRONMENTAL QUALITY
900 North Skyline, Suite B
Idaho Falls, ID 83402
Phone No. 528-2650

B. Permit Contents, Appendices, and Reference Documents

Appendices

1. Environmental Monitoring Serial Numbers
2. Site Maps

Reference Documents

1. Plan of Operation (Operation and Maintenance Manual)
2. Odor Management Plan
3. Runoff Management Plan
4. Sludge Management Plan

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater Reuse Permit LA-000066-02 and are enforceable as such. This permit does not relieve the City of Menan, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

C. Abbreviations, Definitions

Ac-in.	Acre-inch. The volume of water to cover 1 acre of land to a depth of 1 inch; 27,154 gallons.
BMP or BMPs	Best Management Practices
COD	Chemical Oxygen Demand
DEQ or Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ET	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
GS	Growing Season – Typically April 01 through October 31 (214 days)
GW	Ground Water
GWQR	IDAPA 58.01.11 *Ground Water Quality Rule*
Guidance or Guidelines	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, DEQ.
HLRgs	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to reuse hydraulic management units during the growing season. The HLRgs limit is specified in Section F *Permit Limits and Conditions*.
HLRngs	Non-Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to each hydraulic management unit during the non-growing season. The HLRngs limit is specified in Section F *Permit Limits and Conditions*.
HMU	Hydraulic Management Unit
IWR	Irrigation Water Requirement – Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season. Calculation methodology for the IWR can be found at the following website: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. The equation used to calculate the IWR at this website is: $IWR = (CU - P_e) / E_i$ CU is the monthly consumptive use for a given crop in a given climatic area. CU is synonymous with crop evapotranspiration P_e is the effective precipitation. CU minus P_e is synonymous with the net irrigation requirement (IR) E_i is the irrigation system efficiency. To obtain the gross irrigation water requirement (IWR), divide the IR by the irrigation system efficiency.
IDAPA	Idaho Administrative Procedures Act
LG	Lagoon
lb/ac-day	Pounds per acre per day
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per Reuse Reporting Year)
NGS	Non-Growing Season – Typically November 01 through March 31 (151 days)
NVDS	Non-Volatile Dissolved Solids (= Total Dissolved Solids less Volatile Dissolved Solids)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation

Plan of Operation	Also referred to as the Operation and Maintenance Manual (O&M Manual).
Recommended Standards for Wastewater Facilities	*Recommended Standards for Wastewater Facilities – Policies for the Design, Review, and Approval of Plans and Specification for Wastewater Collection and Treatment Facilities*. Published by Health Education Services Division; website: www.hes.org.
Reuse	The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, aquifer recharge, use in surface water features, toilet flushing in commercial buildings, dust control, and other uses.
Reuse Guidance Document	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, DEQ.
Reuse Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31. For example, the 2000 Reporting Year was November 01, 1999 through October 31, 2000.
SAR	Sodium Absorption Ratio
SI	Supplemental Irrigation water applied to the reuse treatment site.
Soil AWC	Soil Available Water Holding Capacity - the water storage capability of a soil at plant root utilization depth (typically 60 inches or root limiting layer).
SMU	Soil Monitoring Unit
SW	Surface Water
TDS	Total Dissolved Solids or total filterable residue
TDIS	Total Dissolved Inorganic Solids – The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, silica and fluoride shall be included if present in significant quantities (i.e. > 5 mg/L each).
TKN	Total Kjeldahl Nitrogen.
TMDL	Total Maximum Daily Load for surface water discharges, and as defined in the NPDES permitting program. See the IDAPA 58.01.02 *Water Quality Standards and Wastewater Treatment Requirements.*
Typical Crop Uptake	Typical Crop Uptake is defined as the median constituent crop uptake from the three (3) most recent years the crop has been grown. Typical Crop Uptake is determined for each hydraulic management unit. For new crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ may be used.
UI	University of Idaho
USGS	United States Geological Survey
WRP	Wastewater Reuse Permit (or Program)
WW	Wastewater applied to the reuse treatment site.

D. Facility Information

Legal Name of Permittee	City of Menan
Type of Wastewater	Municipal/Domestic
Method of Treatment	Lagoons to slow rate land application
Type of Facility	Public
Facility Location	1 mile south of the city of Menan
Legal Location	Township 4N, Range 38E, Section 4
County	Jefferson
USGS Quad	Rigby Quadrangle
Soils on Site	Heiseton loam and Hayeston sandy loam
Depth to Ground Water	4 feet to seasonal (summer) high ground water; 6 feet to first water; 180 feet to regional aquifer.
Beneficial Uses of Ground Water	Agriculture, industrial and domestic use.
Nearest Surface Water	65 feet from lagoons to Dry Bed irrigation canal.
Beneficial Uses of Surface Water	Agriculture and domestic use.
Responsible Official Mailing Address Phone / Fax	Ronald Merrill, Mayor P.O. Box 127 Menan, ID 83434 (208) 754-8876/754-0919
Facility Operator Mailing Address Phone / Fax	Amos Williams P.O. Box 127 Menan, ID 83434 (208) 754-8876/754-0919
Facility Consultants Mailing Address Phone / Fax	Keller Associates, Inc. 412 W Center St., Suite 330 Pocatello, ID 83204 (208) 238-2146/238-2162

E. Compliance Schedule for Required Activities

The compliance activities in the following table shall be completed on or before the completion date unless modified by the Department in writing.

Compliance Activity Number & Completion Deadline	Compliance Activity Description
CA-066-01 December 1, 2006	A **Plan of Operation** (Operation and Maintenance Manual or O&M Manual) for the wastewater reuse facilities, incorporating the requirements of this permit, shall be submitted to DEQ for review and comment. The O&M manual shall be designed for use as an operator guide for actual day-to-day operations to meet permit requirements and shall include daily sampling and monitoring requirements to insure proper operation of the wastewater treatment facility. The Plan of Operation shall contain at a minimum all of the information required by the latest revision of the Plan of Operation Checklist in the Reuse Program Guidance. Upon approval, the manual shall be incorporated by reference into this permit and shall be enforceable as a part of this permit.
CA-066-02 December 1, 2006	An **Odor Management Plan** shall be submitted to the DEQ for review and comment. The plan shall include specific design considerations, operation and maintenance procedures, and management practices to be employed to both minimize the potential for, as well as limit, odors. The plan shall also include procedures to respond to an odor incident if one occurs, including notification procedures.
CA-066-03 December 1, 2006	Submit a **Waste Solids (Sludge) Management Plan** to DEQ for review and approval. The Plan shall describe how waste solids generated at the facility will be handled and disposed of to meet the requirements of Permit Section I, No. 5.
CA-066-04 December 1, 2006	A **Runoff Management Plan** shall be submitted to the DEQ for review and comment. The plan shall describe control structures and other BMPs (e.g. collection basins, berms, etc.) designed to prevent runoff from any site or fields used for wastewater reuse to property not owned by the city of Menan, except in the event of a 25-year, 24-hour storm event or greater. Using the Western Regional Climate Center (WRCC) Precipitation Frequency Map (Figure 28 *Isopluvials of 25-YR, 24-HR Precipitation*) for this site, the 25-year, 24-hour event is 1.8 inches. The facility shall implement the runoff management plan, and shall construct, operate, and maintain the control structures and other BMPs in accordance with the plan.
CA-066-05 December 1, 2006	***Monitoring Wells*** Plans and specifications for the installation of all wells must be submitted to the DEQ for review and approval prior to construction. Monitoring wells 4 and 5 shall be constructed according to appropriate well construction standards. Monitoring well No. 3 shall be replaced and constructed according to appropriate well construction standards. Evaluate wells 1 and 2 to determine if construction standards are appropriate for use as monitoring wells; submit the evaluation to the DEQ. If construction is not appropriate, well construction plans and specifications must be submitted, and the wells replaced by September 2007.
CA-066-06 1 year	Conduct **Seepage Tests** on all lagoons according to the most recent DEQ procedures.

Compliance Activity Number & Completion Deadline	Compliance Activity Description
CA-066-07 Within 90 days of seepage test results, if seepage standards are not met.	If a lagoon is found to be leaking at a rate higher than 0.25 inches per day, the facility, in accordance with a scheduled negotiate with and approved by the Director, is required to either: 1. repair the leak and retest for compliance; 2. re-line the lagoon and retest for compliance; 3. drain the lagoon in an approved manner and stop using the lagoon; or: 4. determine the impact of the leaking lagoon on the environment based on ground water sampling and modeling. If the impact does not comply with IDAPA 58.01.11 *Ground Water Rule* and IDAPA 58.01.02 *Water Quality Standards*, the facility must follow option 1, 2, or 3, above.
CA-066-08 December 1, 2006	Submit **facility maps** as defined in IDAPA 58.01.17 *Rules for the Reclamation and Reuse of Municipal and Industrial Wastewater* section 300.05.e and f.
CA-066-09 December 1, 2006	Submit a **Wellhead Protection** Plan for protecting the onsite monitoring wells from leaching and ground water contaminations. All wells located on or within impact of the facility must be evaluated and determined to be in compliance with the plan.
CA-066-10 September 1, 2006	Install a totalizing **influent meter** to measure wastewater to the facility.

F. Permit Limits and Conditions

The Permittee is allowed to apply wastewater and treat it on a reuse site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Limits and Conditions
Type of Wastewater	Municipal Wastewater
Application Site Area	19 + 4 + 21.4 = 44.4 acres
Application Season	Growing season only
Growing Season (GS)	April 1 to October 31 (214 days)
Non-Growing Season (NGS)	Reuse of wastewater is not allowed during the non-growing season.
Certified Operator	Required. See IDAPA 58.01.02.406.
Reporting Year	November 1 to October 31
Maximum Hydraulic Loading Rate, Growing Season (includes wastewater and supplemental irrigation water, if used); each HMU.	The growing season Hydraulic Loading Rate shall be no greater than the Irrigation Water Requirement (IWR) using data from the tables of the following University of Idaho web site: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. IWR is equal to the Mean IR data from these tables divided by the irrigation system efficiency. In lieu of these tables, current climatic and evaporation data, or 30-year average data may be used to calculate the IWR, as defined in Section C of this permit. Assume no carryover soil moisture and a leaching rate of zero in calculating the IWR. Application shall generally follow consumptive use rates for the crop throughout the season.
Hydraulic Loading Rate, Non-Growing Season	Only growing season wastewater application is permitted.
Ground Water Quality	Ground water quality shall be in compliance with the IDAPA 58.01.11 *Idaho Ground Water Quality Rule.*
Maximum COD Loading, seasonal average in pounds / acre-day, each HMU	The maximum COD loading is 50 pounds/acre-day seasonal average for the growing season.
Maximum Nitrogen Loading Rate, pounds / acre-year, each HMU (from all sources including waste solids and supplemental fertilizers).	The maximum annual nitrogen loading rate is 150% of the *Typical Crop Uptake* (see definition.
Maximum Phosphorus Loading Rate, pounds / acre-year, each HMU (from all sources including waste solids and supplemental fertilizers).	None; however, DEQ reserves the right to re-open this permit for inclusion of phosphorus limits.
Construction Plans	Prior to construction or modification of all wastewater facilities associated with the reuse system or expansion, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans for review and approval.
Prohibited crops	Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.
Fencing and Posting	Signs shall be posted every 500 feet designating the fields as wastewater reuse areas or equivalent.
Supplemental Irrigation Water Protection	For systems with wastewater and fresh irrigation water interconnections, DEQ approved backflow prevention devices are required.

Category	Permitted Limits and Conditions
Runoff	Runoff shall be managed in accordance with a DEQ approved Runoff Management Plan. See Section E Compliance Schedule for Required Activities.
Grazing	Not allowed.
Odor Management	The wastewater treatment plant, reuse facilities, and other operations associated with the facility shall not create a public health hazard or nuisance conditions, including odors. These facilities shall be managed in accordance with a DEQ approved Odor Management Plan.
Total coliform disinfection level	The total coliform disinfection level for wastewater prior to land application shall not exceed 230 cfu/100 mL. For determining compliance with the 230 cfu /100 mL disinfection level, the median value of the last three (3) results must not exceed 230 cfu/100 mL. In addition, no single sample value shall exceed 2400 cfu/100 mL.
Buffer zones	The following minimum buffer distances shall be provided between areas using reclaimed water and: Public water sources: 1,000 feet or more; Inhabited dwellings: 1,000 feet or more; Private or domestic water sources: 500 feet or more; Public access: 300 feet or more; Natural surface waters (rivers or streams): 100 feet or more; Man made surface waters (ditches, canals): 50 feet or more. All buffer zones must comply with, at a minimum, local zoning ordinances. Any mitigation measures to reduce buffer zone distances must be reviewed and approved by DEQ prior to implementation.
Wellhead Protection	Protect onsite monitoring wells to prevent ground water contamination.

G. Monitoring Requirements

1) The permittee shall monitor and measure parameters and submit information as stated in the Facility Monitoring Table in this section.

2) Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.

3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.

4) Monitoring is required at the frequency shown in the Facility Monitoring Table if wastewater is applied anytime during the time period shown. Unless otherwise agreed in writing by the DEQ, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the Facility Monitoring Table.

5) Appropriate analytical methods, as given in the *Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater* or as approved by the DEQ shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Plan of Operation.

6) Monitoring locations are described in Appendix 1.

Soil Sampling

7) If the hydraulic management unit (HMU) is less than 15 acres, use 5 sub-samples (use 5 sampling locations on the HMU). If the HMU is greater than 15 acres, use 10 sub-samples (use 10 sampling locations on the HMU).

8) Two soil samples shall be collected at each sample location: one at 0-12 inches deep and one at 12-24 inches. The soil samples collected at 0-12 inches within each individual HMU shall be composited. Similarly, all soil samples collected at 12-24 inches within each individual HMU shall be composited. This method will yield two samples for each HMU: 0-12 inches and 12-24 inches.

Ground Water Sampling

9) Ground Water Monitoring Procedure: ground water monitoring wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling for ground water.

Surface Water Sampling

10) Surface water sampling methods must be reviewed and approved by the DEQ.

Facility Monitoring Table

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily	Facility influent meter	Wastewater influent	Wastewater influent to the facility in MG.
Daily (when land applying)	Flow meter	Wastewater flow	Volume in MG and inches to each HMU.
	Flow meter or calibrated pump	Supplemental irrigation water flow	Volume in MG and inches to each HMU.
Monthly (when land applying)	Wastewater discharge point	Wastewater grab sample	Total Coliform, TKN, TDS, COD, total phosphorus, pH, nitrate + nitrite nitrogen
Bi-Monthly (when land applying) April, June, August, October	All ground water monitoring wells in Appendix 1.	Ground water level	Water table depth below ground surface and elevation above mean sea level.
Each Harvest	Each HMU	Crop data	1. Crop type; 2. Crop moisture; 3. Crop harvests per year; 4. Crop yield per harvest in total pounds, and in tons/acre, lb/acre, or bushels/acre.
		Plant tissue analysis: composite sample of each harvest.	Nitrate-nitrogen, Total Kjeldahl nitrogen, total phosphorus, ash, moisture.
		Calculate crop nitrogen, phosphorous, and ash removal	lb/acre and total pounds per HMU (dry basis)
Semi-Annually in April and October	All ground water monitoring wells in Appendix 1.	Ground water analysis. See Section G.9	Specific conductivity, temperature, pH, nitrate + nitrite nitrogen, total phosphorus, TDS, COD, total coliform, total iron, total manganese, dissolved iron, dissolved manganese.

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annually: in October, after last harvest	Each SMU (HMU)	Composite soil sample	Electrical conductivity, nitrate-N, ammonium-N, pH, plant available phosphorous (use Olsen method for soils with pH 6.5 or greater, use Bray method if soil pH is less than 6.5).
Annually	All flow measurement locations.	Flow measurement calibration	Document the calibration of all flow meters and pumps for wastewater, tail water, flushing water, and supplemental irrigation water to each HMU.
	All supplemental irrigation pumps directly connected to the wastewater distribution system.	Supplemental irrigation water backflow testing	Document the testing of all backflow prevention devices for all supplemental irrigation pumps directly connected to the wastewater distribution system(s). Report the testing date(s) and results of the test (pass or fail). If any test failed, report the date of repair or replacement of the backflow prevention device, and if the repaired/replaced device is operating correctly.
	Each HMU	Calculate irrigation water requirement for crop grown	Volume (inches/acre and total gallons) for each growing season month
		Calculate wastewater applied	Million gallons & inches
		Calculate COD applied from wastewater	COD applied in lb/acre-day
		Calculate nitrogen and phosphorus applied from wastewater	Nitrogen and phosphorus applied in lb/acre-year
		Calculate nitrogen and phosphorus applied from fertilizer or all other non-wastewater application.	Nitrogen and phosphorus applied in lb/acre-year
April of first and last permit years	HMU	Composite soil sample	Sodium Adsorption Ratio (SAR), DTPA-Fe, DTPA-Mn

H. Standard Reporting Requirements

Annual Report

The permittee shall submit an Annual Wastewater Reuse Site Performance Report (Annual Report) prepared by a competent environmental professional no later than January 31 of each year which shall cover the previous reporting year. The Annual Report shall include:

1. The results of Section G *Monitoring Requirements.* If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.

2. The status of compliance activities.

3. An interpretive discussion of monitoring data with particular respect to environmental impacts by the facility.

4. All laboratory reports containing the sample results for Section E *Monitoring Requirements.*

5. Ground water contour maps for each ground water sampling event.

The annual report shall be submitted to the Engineering Manager in the Idaho Falls Regional DEQ Office.

Gregory Eager, P.E.
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402

A copy of the annual report shall also be mailed to:

Richard Huddleston, P.E.
Wastewater Program Manager
1410 N. Hilton
Boise, ID 83706

Compliance Activities

Notice of completion of any Section E compliance activities shall be submitted to the Department within 30 days of activity completion. The status of all other Section E compliance activities shall be submitted with the Annual Report.

I. Conditions: Standard Permit Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Wastewater Reuse Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.

2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the U.S. Environmental Protection Agency.

3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.16.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall:

a. Apply wastewater as evenly as practicable to the treatment area;
b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.

4. The permittee shall:

a. Manage the wastewater reuse treatment site as an agronomic operation where vegetative cover is grown and harvested to utilize the nutrients and minerals in the wastewater, and,
b. Not hydraulically overload any particular areas of the wastewater reuse treatment site.

5. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.

6. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Waste Water Reuse Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.

7. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:

a. Enter the permitted facility,
b. Inspect any records that must be kept under the conditions of the permit.
c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.

8. The permittee shall report to the Director under the circumstances and in the manner specified in this section:

a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Regional Office: 208-528-2650
Idaho State Communications Center Emergency 24 Hour Number 1-800-632-8000

d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:

i. A description of the non-compliance and its cause;
ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.

e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.

9. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.

10. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

J. Standard Permit Conditions: Modifications, Violations, and Revocations

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.

2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.

3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.

4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.

5. Any person violating any provision of the Waste Water Reuse Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars ($10,000) or one thousand dollars ($1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.

6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Reuse Permit Regulations.

7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.

8. If, pursuant to Idaho Code ə 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of the Department of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.

9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted Reuse facility from service, including any treatment, storage, or other facilities or equipment associated with the Reuse site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

Appendix 1: Environmental Monitoring Serial Numbers

Ground Water Monitoring

Serial Number	Description	Location
GW-06601	Well 1	South well, adjacent to the southwest corner of Lagoon 1
GW-06602	Well 2	Northwest corner of HMU 1
GW-06603	Well 3	Southeast area of HMU 1
GW-06604	Well 4	Southwest corner of HMU 3
GW-06605	Well 5	Northwest area of HMU 3

Hydraulic Management Units (HMU)

Serial Number	Description	Acres
MU-006601	Unit 1; HMU 1; southeast unit	19
MU-006602	Unit 2; HMU 2; northeast unit	4
MU-006603	Unit 3; HMU 3; west unit	21.4

Lagoons

Serial Number	Description
LG-06601	Lagoon 1: facultative lagoon; southwest lagoon.
LG-06602	Lagoon 2: polishing lagoon; southeast lagoon.
LG-06603	Lagoon 3: storage lagoon; northeast lagoon.
LG-06604	Cell A: aerated lagoon; northwest lagoon.
LG-06605	Cell B: aerated lagoon; north central lagoon.

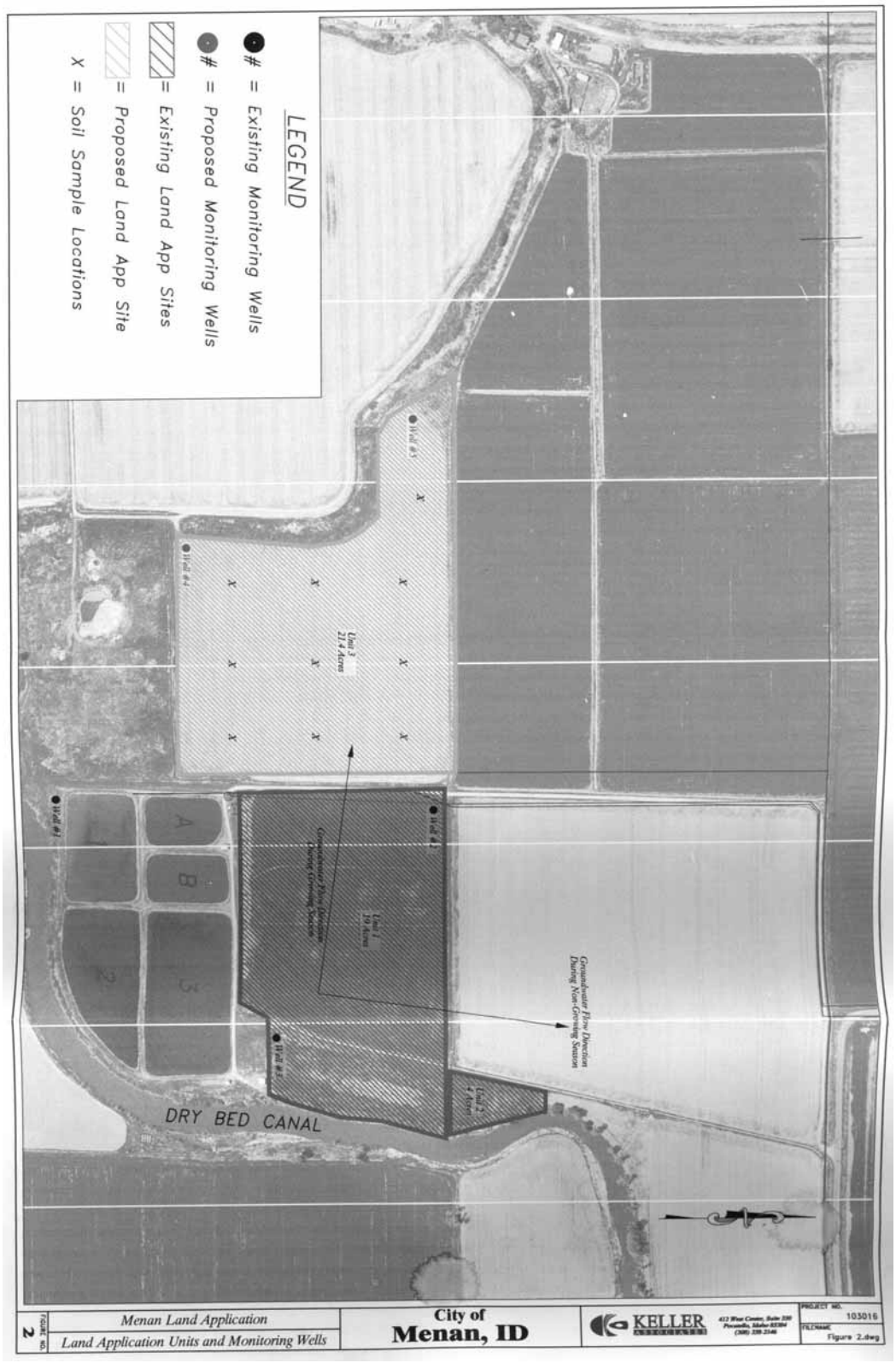
Soil Monitoring Units (SMU)

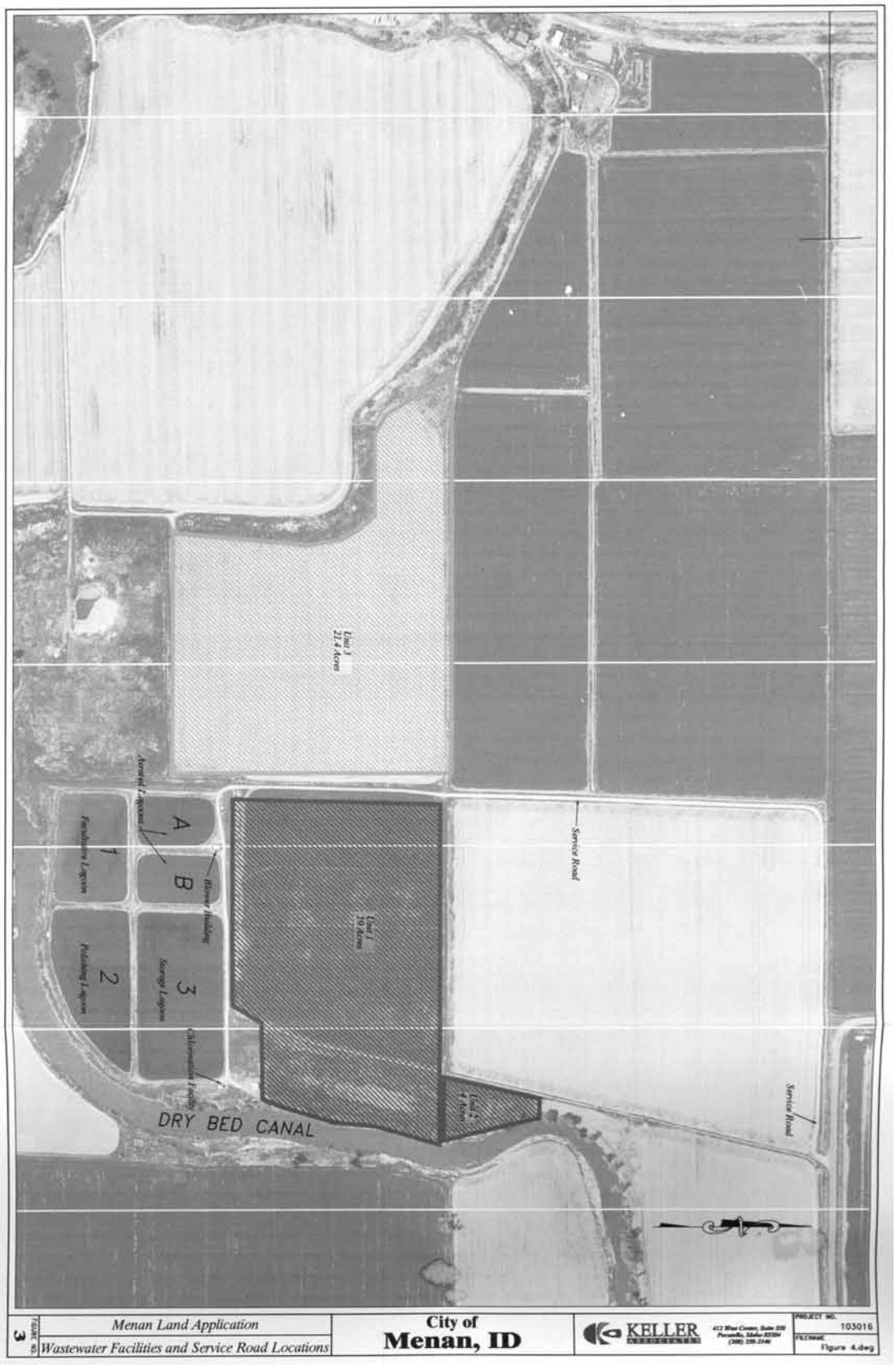
Serial Number	Description	Associated HMU
SU-06601	Sampling points in HMU 1.	HMU 1
SU-06602	Sampling points in HMU 2.	HMU 2
SU-06603	Sampling points in HMU 3.	HMU 3

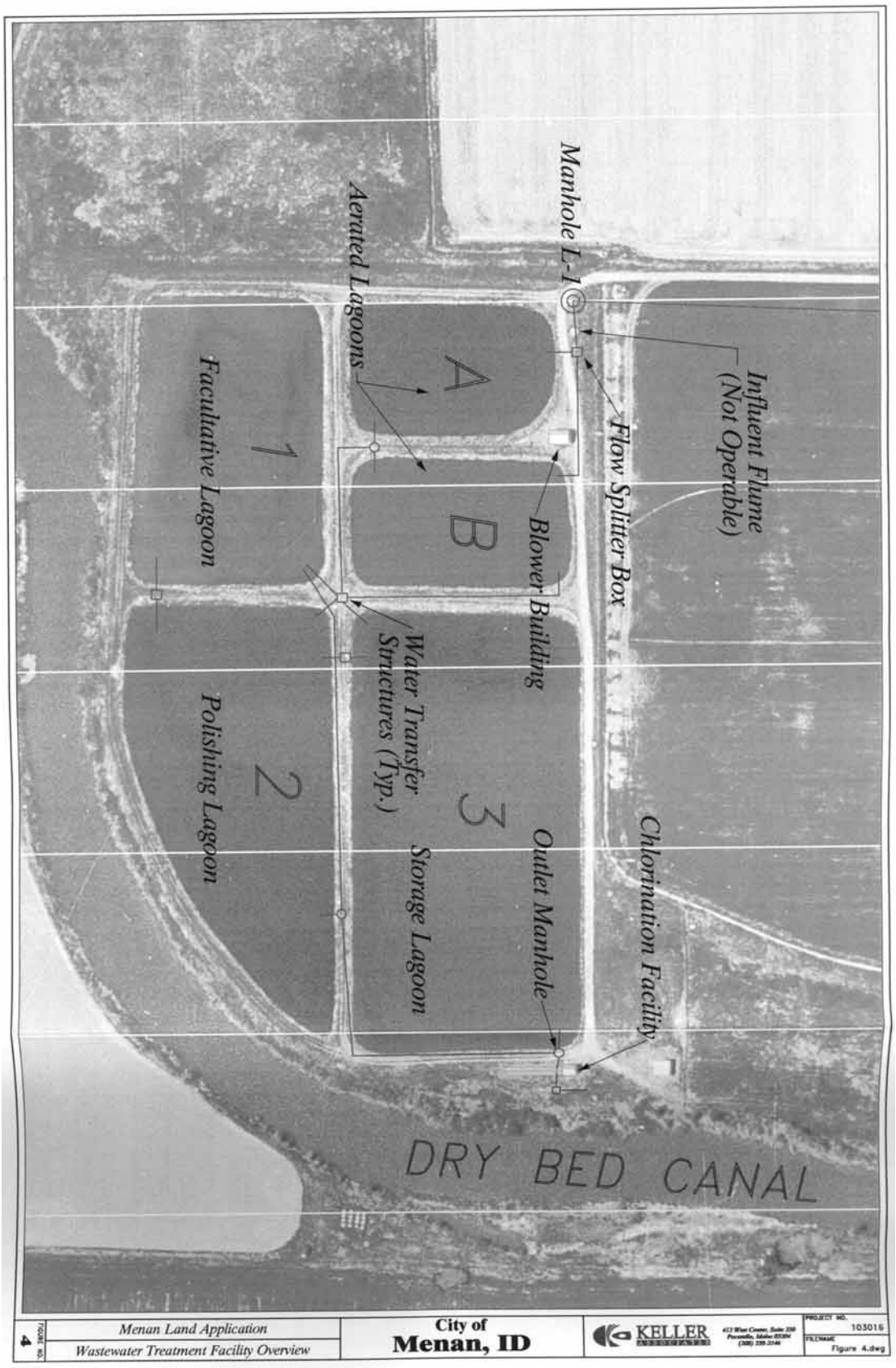
Wastewater Sampling Points

Serial Number	Description
WW-06601	Wastewater effluent to the irrigation system.

Appendix 2: Site Maps




Unit 3
21.4 Acres
Service Road
Unit 1
10 Acres
Unit 2
4 Acres
Service Road
A
B
1
2
3
DRY BED CANAL
Menan Land Application
Wastewater Facilities and Service Road Locations
City of
Menan, ID
KELLER
PROJECT NO.
103016
Figure 4.dwg


Manhole L-1
Influent Flume (Not Operable)
Flow Splitter Box
Aerated Lagoons
A
B
Blower Building
1
Facultative Lagoon
Water Transfer Structures (Typ.)
3
Storage Lagoon
Outlet Manhole
Chlorination Facility
2
Polishing Lagoon
DRY BED CANAL
4
Menan Land Application
Wastewater Treatment Facility Overview
City of
Menan, ID
KELLER
103016
Figure 4.dwg